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DATE OF ISSUE
2/14/2002SUPERSEDES
12/10/1998

SECTION I - GENERAL INFORMATION

Chemical Name & Synonyms

Trade Name & Synonyms

SHIELD COAT AEROSOL

Chemical Family:

Formula Mixture --> X

ALIPHATIC AND AROMATIC HYDROCARBONS

Manufacturer's Name:

CERTIFIED LABS, DIV. OF NCH CORP.

Address:

BOX 152170

IRVING, TEXAS 75015

Prepared By:

K Dickinson/Chemist

Product Code Number

5536

Emergency Phone Number

800-424-9300

SECTION II - HAZARDOUS INGREDIENTS

THE HAZARDS PRESENTED BELOW ARE THOSE OF THE INDIVIDUAL COMPONENTS

Chemical Name (Ingredients)	Hazard	TLV	PEL	STEL	CAS #
TOLUENE	**	50 PPM 1	100 PPM 2	NOT EST	108-88-3
ALIPHATIC PETROLEUM DISTILLATE	IRR/FLAM	100 PPM \$1	500 PPM \$2	NOT EST	64742-89-8
PROPANE	FLAM/ASPHX	2500 PPM 1	NOT EST 2	NOT EST	74-98-6
BUTANE	FLAM/ASPHX	800 PPM 1	NOT EST 2	NOT EST	106-97-8
CALCIUM CARBONATE	IRRITANT	10 MG/M3 1	5 MG/M3 *2	NOT EST	1317-65-3
PETROLEUM ASPHALT	IRRITANT	NOT EST 1	NOT EST 2	NOT EST	8052-42-4
HYDROUS ALUMINUM SILICATE	IRRITANT	NOT EST 1	NOT EST 2	NOT EST	1332-58-7
HYDRATED ALUMINUM MAGNESIUM SILICATE	IRRITANT	NOT EST 1	NOT EST 2	NOT EST	12174-11-7
CRYSTALLINE SILICA (QUARTZ)	IRR/CARC	.05MG/M3 1	3.3MG/M3 2	NOT EST	14808-60-7
\$ STODDARD SOLVENT VALUE					
* RESPIRABLE FRACTION					
** IRR/FLAM/SL.TOX.					

SECTION III - PHYSICAL DATA

Boiling Point (F):	>50	Specific Gravity (H2O=1):	0.7
Vapor Pressure (MM HG):	68 PSIG	Color:	DARK BROWN-BLACK
Vapor Density (Air=1):	>1	Odor:	SOLVENT
PH @ 100% :	N/A	Clarity:	OPAQUE
% Volatile by Volume:	72	Evaporation Rate (BU A/C=1):	<1
H2O Solubility:	NEGLECTIBLE	Viscosity:	SEMI-VISCOUS

SECTION IV - FIRE AND EXPLOSION HAZARD

Flash Point 35°F / SETAFLASH	Flammable Limits ALI.PET.DIST./PROPANE	LEL 0.7%	UEL 9.5%
Extinguishing Media X <--Foam	<--Alcohol Foam	X <--CO2	X <--Dry Chemical
		<--Water Spray	<--Other
Special Fire Fighting Procedures: FIREFIGHTERS SHOULD WEAR A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY TO PREVENT BURSTING.			
Unusual Fire and Explosion Hazards: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL TO DISTANT SOURCES OF IGNITION AND FLASHBACK. PRODUCT MAY PRODUCE A FLOATING FIRE HAZARD AS LIQUID FLOATS ON WATER. FLAME EXTENSION IS >30 INCHES, BURNBACK IS 2 INCHES.			
Aerosol Level (NFPA 30B): 3			
NFPA 704 Hazard Rating (0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme) 2 <--Health 4 <--Flammability 0 <--Instability <--Special			

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value:
NOT ESTABLISHED FOR MIXTURE. SEE SECTION II.

Effects of Overexposure:

<--Acute (Short Term Exposure)

SKIN CONTACT: MAY CAUSE IRRITATION SEEN AS ITCHING AND REDNESS. MAY CAUSE DEFATTING OF THE SKIN.

EYE CONTACT: CAUSES IRRITATION SEEN AS REDNESS AND TEARING.

INHALATION: AT LOW LEVELS OF CONCENTRATION, INITIAL SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA AND LOSS OF CONCENTRATION. WITH HIGH EXPOSURE LEVELS, CENTRAL NERVOUS SYSTEM DEPRESSION (INTOXICATION), CARDIAC ARRHYTHMIA AND ANESTHETIC EFFECTS MAY OCCUR. PRODUCT VAPORS DISPLACE AIR AND CAN CAUSE ASPHYXIATION, ESPECIALLY IN CONFINED SPACES.

INGESTION: MAY CAUSE IRRITATION WITH POSSIBLE NAUSEA, VOMITING AND DIARRHEA.

<--Chronic (Long Term Exposure)

SECTION V - HEALTH HAZARD DATA (Continued)

A CONDITION KNOWN AS "PAINTER'S SYNDROME" CAN OCCUR CAUSING A LOSS OF SENSATION IN THE ARMS AND HANDS (PERIPHERAL NEUROPATHY). INHALATION OF CRYSTALLINE SILICA CAN CAUSE A PROGRESSIVE LUNG DISEASE KNOWN AS SILICOSIS. STUDIES INDICATE THAT PERSONS DIAGNOSED WITH SILICOSIS HAVE AN INCREASED RISK OF LUNG CANCER.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE ARE PRE-EXISTING RESPIRATORY AND SKIN CONDITIONS SUCH AS ASTHMA, EMPHYSEMA AND DERMATITIS AND PRE-EXISTING LIVER AND KIDNEY DISEASES.

TARGET ORGANS: LIVER, HEART, LUNGS, CENTRAL AND PERIPHERAL NERVOUS SYSTEMS AND KIDNEYS.

Primary Routes of Entry: X <--Inhalation <--Ingestion <--Absorption

Emergency and First Aid Procedures:

-Inhalation:

REMOVE FROM THE AREA TO FRESH AIR. IF NOT BREATHING, CLEAR THE AIRWAY AND START MOUTH TO MOUTH ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL ATTENTION.

-Eye Contact:

RINSE THE EYES WITH WATER. REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Skin Contact:

WASH AFFECTED AREAS WITH PLENTY OF SOAP AND WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS.

-Ingestion:

GIVE 3 TO 4 GLASSES OF WATER, BUT DO NOT INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

-Notes to Physician:

THERE IS NO SPECIFIC ANTIDOTE. TREAT THE PATIENT SYMPTOMATICALLY.

SECTION VI - TOXICITY INFORMATION

Product Contains Chemicals Listed as Carcinogen or Potential Carcinogen By:

IARC--> Yes NTP--> No OSHA--> No ACGIH--> No OTHER--> No

TOLUENE

EYE-HMN-SDT: 300 PPM 3.
SKN-RBT-SDT: 500 MG MODERATE 3.
SKN-RBT LD50: 12124 MG/KG 4.
IHL-RAT LC50: 49 GM/M3/4H 3.
ORL-RAT LD50: 636 MG/KG 3.

REPEATED ORAL ADMINISTRATION PRODUCED LIVER, KIDNEY AND BLOOD CHANGES IN RATS. INHALATION EXPOSURE PRODUCED LUNG IRRITATION AND DAMAGE IN RATS, BLOOD CHANGES IN RATS AND MICE, LIVER CHANGES IN RATS, MICE AND RABBITS, DECREASED RESISTANCE TO LUNG INFECTION IN MICE AND VARIOUS BRAIN EFFECTS INCLUDING SUBTLE BEHAVIOR CHANGES AND HEARING LOSS IN RATS AND MICE. 4.

ALIPHATIC PETROLEUM DISTILLATE

ORL-RAT LD50: >5840 MG/KG 3.
SKN-RAT LD50: >2920 MG/KG 3.
SKN-RBT: 4HR; SLIGHT IRRITATION 3.
EYE-RBT: NEGLIGIBLE IRRITATION 3.
IHL-RAT LC50: 3400 PPM 3.

KIDNEY EFFECTS IN MALE RATS WERE OBSERVED IN LABORATORY ANIMALS EXPOSED TO A SIMILAR MATERIAL. EFFECTS WERE CONSISTENT WITH MALE RATS HYALINE DROPLET NEPHROPATHY WHICH IS OF QUESTIONABLE SIGNIFICANCE TO HUMAN HEALTH. IN ANIMALS, REPEATED EXPOSURE TO HIGH CONCENTRATIONS OF A SIMILAR SOLVENT HAS CAUSED A DECREASE IN THE RED BLOOD CELL COUNT. 3.

PROPANE

NO TOXICOLOGICAL DATA AVAILABLE.

BUTANE

IHL-RAT LC50: 658 G/M3/4H 3.
IHL-MUS LC50: 680 G/M3/4H 3.

CALCIUM CARBONATE

ORL-RAT LD50: 6450 MG/KG 5.
EYE, NOSE, THROAT AND RESPIRATORY IRRITANT 6.

PETROLEUM ASPHALT

NO TOXICOLOGICAL DATA AVAILABLE.

HYDRATED ALUMINUM MAGNESIUM SILICATE

IPR-RAT TDLo: 338 MG/KG/2W-I NEO 3.

HYDROUS ALUMINUM SILICATE (DATA FROM SIMILAR COMPOUND)

ORL-RAT LD50: >27 GM/KG 3.
IHL-RAT LC: >140 MG/M3/4H 3.
SKN-RBT LD: >2 GM/KG 3.

CRYSTALLINE SILICA

CRYSTALLINE SILICA (QUARTZ)

IHL-HMN LCLo: 16 MPPEF/6H/17.9Y-I FIBROSIS OF THE LUNG 3.
IHL-RAT LCLo: 80 MG/M3/26W-I FIBROSIS OF THE LUNG 3.

TUMORIGENICITY

IHL-RAT TCLo: 50 MG/M3/6H/71W-I TUMORS 3.

THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER HAS CONCLUDED THAT "CRYSTALLINE SILICA INHALED IN THE FORM OF QUARTZ OR CRISTORALITE FROM OCCUPATIONAL SOURCES IS CARCINOGENIC TO HUMANS (GROUP 1)". IT ALSO NOTED THAT CARCINOGENICITY WAS NOT DETECTED IN ALL INDUSTRIAL CIRCUMSTANCE STUDIES, AND MAY BE DEPENDENT ON EXTERNAL FACTORS AFFECTING ITS BIOLOGICAL ACTIVITY OR DISTRIBUTION OF ITS POLYMORPHS. EXPOSURE TO RESPIRABLE SILICA HAS ALSO BEEN ASSOCIATED WITH SILICOSIS, SCLERODERMA AND NEPHROTOXICITY. 4.

VOC CONTENT: 72% OR 4.1 LB/GAL

SECTION VII - REACTIVITY DATA

Stability: X <--Stable <--Unstable

Conditions to Avoid:

AVOID HEAT, HOT SURFACES, SPARKS AND OPEN FLAMES.

SECTION VII - REACTIVITY DATA (Continued)

Incompatibility (Materials to Avoid):

STRONG OXIDIZING AGENTS SUCH AS CHLORINE BLEACH AND CONCENTRATED HYDROGEN PEROXIDE AND STRONG ACIDS.

Hazardous Decomposition Products:

OXIDES OF CARBON AND SULFUR AND HYDROCARBONS.

Hazardous Polymerization:

<--May Occur

X <--Will Not Occur

Conditions to Avoid:

N/A.

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be Taken if Material is Released or Spilled:

ELIMINATE ALL SOURCES OF IGNITION. DUE TO THE NATURE OF THE AEROSOL PACKAGING, A LARGE SPILL IS UNLIKELY. FOR A SMALL SPILL, Wipe Up and Transfer All Material into a Properly Labeled Container for Disposal. Wear Appropriate Protective Clothing.

Waste Disposal Method(s):

DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS. TYPICAL DISPOSAL IS TO WRAP THE EMPTY AEROSOL CONTAINER IN SEVERAL LAYERS OF NEWSPAPER AND DISPOSE OF IN THE TRASH. AEROSOL RECYCLING PROGRAMS ARE AVAILABLE IN MANY AREAS. DO NOT PUNCTURE OR INCINERATE THIS CONTAINER.

Neutralizing Agent:

NONE KNOWN.

SECTION IX - SPECIAL PROTECTION INFORMATION

Required Ventilation:

LOCAL VENTILATION IS RECOMMENDED TO CONTROL EXPOSURE.

Respiratory Protection:

A NIOSH/MSHA APPROVED RESPIRATOR IN POORLY VENTILATED AREAS AND/OR FOR EXPOSURE ABOVE THE ACGIH TLV OR OSHA PEL.

Glove Protection:

NEOPRENE RUBBER OR NITRILE GLOVES IF REPEATED OR PROLONGED SKIN CONTACT IS LIKELY.

Eye Protection:

SAFETY GLASSES WITH SIDE SHIELDS IF THE METHOD OF USE PRESENTS THE LIKELIHOOD OF EYE CONTACT.

Other Protection:

WEAR PROTECTIVE CLOTHING WHEN HANDLING.

SECTION X - STORAGE AND HANDLING INFORMATION

Storage Temperature: Indoors--> X Outdoors--> Heated--> Refrigerated-->
Minimum Temperature: 32 F Maximum Temperature: 120 F

Precautions to be Taken in Handling and Storing:

USE WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY AND OPEN FLAME.

Other Precautions:

KEEP OUT OF REACH OF CHILDREN. READ THE ENTIRE LABEL BEFORE USING THE PRODUCT.

SECTION XI - REGULATORY INFORMATION

Chemical Name
TOLUENECAS Number
108-88-3Upper % Limit
40

Those ingredients listed above are subject to the reporting requirements of 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

Please call 1-800-527-9919 for additional information if you are a California customer.
This MSDS is not intended for users in the state of California.

SECTION XII - REFERENCES

1. THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS AND BIOLOGICAL EXPOSURE INDICES, ACGIH, 2001.
2. OSHA PEL.
3. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, CCINFODisc, 2001.
4. VENDOR'S MSDS.
5. SAK'S DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, NINTH EDITION, RICHARD J. LEWIS, SR.
6. HAZARDOUS MATERIALS TOXICOLOGY - CLINICAL PRINCIPLES OF ENVIRONMENTAL HEALTH, WILLIAM AND WILKINS, 1992.

ALL COMPONENTS IN THIS PRODUCT CAN BE FOUND IN THE CURRENT TSCA INVENTORY.
IRR: IRRITANT, FLAM/FLAMM: FLAMMABLE, COMB: COMBUSTIBLE,
CORR: CORROSIVE CARC: CARCINOGENIC, TOX: TOXIC, N/A: NOT APPLICABLE, N/E: NOT ESTABLISHED, COC: CLEVELAND OPEN CUP, PMCC: PENSLEY-MARTIN CLOSED CUP,
TCC: TAGLIABUE CLOSED CUP, LEL: LOWER EXPLOSION LIMIT, UEL: UPPER EXPLOSION LIMIT, NFPA: NATIONAL FIRE PROTECTION ASSOCIATION, IARC: INTERNATIONAL AGENCY
FOR THE RESEARCH ON CANCER, NTP: NATIONAL TOXICOLOGY PROGRAM, OSHA: OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION, ACGIH: AMERICAN CONFERENCE OF
GOVERNMENTAL INDUSTRIAL HYGIENISTS, TLV: THRESHOLD LIMIT VALUE, PEL: PERMISSIBLE EXPOSURE LIMIT, STEL: SHORT-TERM EXPOSURE LIMIT, MLD: MILD,
MOD: MODERATE, SEV: SEVERE, MUT: MUTAGENIC, ASPHYX: ASPHYXANT, PNOS: PARTICULATES (INSOLUBLE) NOT OTHERWISE SPECIFIED, SDT: STANDARD DRAIZE TEST, ORL:
ORAL, HMN: HUMAN, IHL: INHALATIONTHE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE IN LIGHT OF CURRENT FORMULATION. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED
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